

## INDEX TO VOL. XXVIII.

- A** CAPNIA and glycosuria, 275.  
 Aluminium, absorption from food, 94.  
 Auerbach's plexus, regeneration of, 352.
- B** ECHT, F. C. See LUCKHARDT and BECHT, 257.
- B** ENEDICT, F. G., and H. L. HIGGINS. Effects on men at rest of breathing oxygen-rich gas mixtures, 1.
- B** ENEDICT, F. G., and J. HOMANS. A respiration apparatus for the determination of the carbon dioxide produced by small animals, 29.
- B** ENEDICT, F. G. See EMERY and BENEDICT, 301.
- B** ENEDICT, F. G. See HIGGINS and BENEDICT, 291.
- Blood, viscosity, 161.
- Blood pressure, venous, affected by exercise, 235.
- Brain, affected by warming the carotid blood, 223.  
 —, function of occipital lobes, 308.
- C** ANNON, W. B., and D. DE LA PAZ. Emotional stimulation of adrenal secretion, 64.
- C** ARLSON, A. J., and CLARA JACOBSON. Further studies on the nature of parathyroid tetany, 133.
- C** ARLSON, A. J., and F. M. DRENNAN. The control of pancreatic diabetes in pregnancy by the passage of the internal secretion of the pancreas of the fetus to the blood of the mother, 391.
- C** ARLSON, A. J., A. WOELFEL, and H. W. POWELL. Contributions to the physiology of lymph.—XVI. On the local hemodynamic action of tissue metabolites, 176.
- Circulation, affected by forced breathing, 190.  
 —, chemical regulation of vascular tone, 361.
- D** EASON, J., and L. G. ROBB. On the pathways for the bulbar respiratory impulses in the spinal cord, 57.
- D** E LA PAZ, D. See CANNON and DE LA PAZ, 64.
- Diabetes, phlorizin, metabolism in, 71.
- D** RENNAN, F. M. See CARLSON and DRENNAN, 391.
- D** RENNAN, F. M. The presence of the internal secretion of the pancreas in the blood, 396.
- E** MERY, A. G., and F. G. BENEDICT. The heat of combustion of compounds of physiological importance, 301.
- Exercise, affects venous blood pressure, 235.  
 —, influence on metabolism, 291.
- F** RANZ, S. I. On the functions of the cerebrum: concerning the lateral portions of the occipital lobes, 308.
- G** ARREY, W. E. Dissociation of inhibitory nerve impulses from normal conduction in the heart by means of compression, 249.
- G** ARREY, W. E. Rhythmicity in the turtle's heart and comparison of action of the two vagus nerves, 330.
- Glycosuria, affected by stimulating the splanchnic nerve, 403.  
 —, and acapnia, 275.
- G** REENWALD, I. The effect of parathyroidectomy upon metabolism, 103.

- H**EART, action of vagus on rhythm, 330.  
 —, conduction in, 249.  
 —, rate affected by temperature, 81.  
 Heat, of combustion of compounds of physiological importance, 301.  
**HENDERSON, Y.**, and **F. P. UNDERHILL**. Acapnia and glycosuria, 275.  
**HIGGINS, H. L.**, and **F. G. BENEDICT**. Some energy factors of the urine excreted after severe muscular exercise, 291.  
**HIGGINS, H. L.** See **BENEDICT** and **HIGGINS, I.**  
**HOMANS, J.** See **BENEDICT** and **HOMANS, 29.**  
**HOOKER, D. R.** The chemical regulation of vascular tone as studied upon the perfused blood vessels of the frog, 361.  
**HOOKER, D. R.** The effect of exercise upon the venous blood pressure, 235.  
 Hormones, action on blood pressure, 176.  
**HOUGH, T.** Variations in the response of healthy men to the dyspneic conditions produced by breathing a confined volume of air, 369.  
**I**MMUNITY, relation of spleen to, 257.  
 Inductoriums — their comparison, 49.  
 Intestine, regeneration of Auerbach's plexus, 352.  
**J**ACOBSON, CLARA. See **CARLSON** and **JACOBSON, 133.**  
**L**ILLIE, R. S. The relation of stimulation and conduction in irritable tissues to changes in the permeability of the limiting membranes, 197.  
**LUCKHARDT, A. B.**, and **F. C. BECHT.** The relation of the spleen to the fixation of antigens and the production of immune bodies, 257.  
 Lymph, action of tissue metabolites on the blood pressure, 176.  
**M**ACLEOD, J. J. R., and **R. G. PEARCE.** Studies in experimental glycosuria. — VII. The amount of glycogenase in the liver and in the blood issuing from it, as affected by stimulation of the great splanchnic nerve, 403.  
**MARTIN, E. G.** A quantitative study of faradic stimulation. — VI. The comparison of one inductorium with another, 49.  
**MEEK, W. J.** Regeneration of Auerbach's plexus in the small intestine, 352.  
 Metabolism, affected by breathing oxygen-rich mixtures, 1.  
 —, affected by parathyroidectomy, 103, 133.  
 —, after severe muscular exercise, 291.  
 —, heat of combustion of physiological compounds, 301.  
 —, in phlorizin diabetes, 71.  
 —, in pregnancy, 422.  
 —, its products act on blood pressure, 176.  
 —, relation of liver to glycosuria, 403.  
**MITCHELL, P. H.**, and **G. SMITH.** The physiological effects of alkaloids of zygadenus intermedius, 318.  
**MOORHOUSE, V. H. K.** Effect of increased temperature of the carotid blood, 223.  
**MURLIN, J. R.** Metabolism of development. — III. Qualitative effects of pregnancy on the protein metabolism of the dog, 422.  
**N**ERVES, phrenic, afferent fibres in, 57.  
**O**STERBERG, E. See **WOLF** and **OSTERBERG, 71.**  
**P**ARATHYROIDECTOMY, effect on metabolism, 103, 133.  
 Parathyroid tetany, 133.  
**PEARCE, R. G.** See **MACLEOD** and **PEARCE, 403.**  
 Permeability of limiting membranes, relation to stimulation and conduction, 197.  
 Pregnancy, diabetes in, 391, 396.  
 —, metabolism in, 422.  
**POWELL, H. W.** See **CARLSON, WOELFEL** and **POWELL, 176.**  
**R**ESPIRATION, apparatus for determining of carbon dioxide produced by small animals, 29.  
 —, effect of dyspnoea from breathing a confined volume of air, 369.  
 —, influence of forced breathing on blood flow in hands, 190.  
 —, of oxygen-rich gas mixtures, 1.  
 —, spinal pathways, 57.  
**ROBB, L. G.** See **DEASON** and **ROBB, 57.**  
**ROGERS, C. G.** Studies upon the temperature coefficient of the rate of heart beat in certain living animals, 81.

SECRETION, adrenal, emotional stimulation, 64.

—, internal, of pancreas, 391, 396.

SMITH, G. See MITCHELL and SMITH, 318.

SNYDER, C. D., and M. H. TODD. The viscosity of body fluids at various temperatures within physiological limits. — I. The problem and method. — II. viscosity of blood, plasmata, and sera, 161.

SNYDER, C. D. On the meaning of variation in the magnitude of temperature coefficients of physiological processes, 167.

Spleen, relation to immunity, 257.

STEEL, M. On the absorption of aluminum from aluminized food, 94.

STEWART, G. N. Studies on the circulation in man. — III. The influence of forced breathing on the blood flow in the hands, 190.

Stimulation, affected by permeability of limiting membranes, 197.

—, Faradic, 49.

TEMPERATURE co-efficients, relation to physiological processes, 167.

TODD, M. H. See SNYDER and TODD, 161.

UNDERHILL, F. P. See HENDERSON and UNDERHILL, 275.

VAGUS, action on rhythm of heart, 330.

Vasomotor, tonus regulated by chemical means, 361.

Viscosity of body fluids, 161.

WOELFEL, A. See CARLSON, WOELFEL, and POWELL, 176.

WOLF, C. G. L., and E. OSTERBERG. Protein metabolism in phlorizin diabetes, 71.

ZYGADENUS intermedius, action of its alkaloids, 318.

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

h

THE AMERICAN  
JOURNAL OF PHYSIOLOGY

GENERAL LIBRARY,  
UNIV. OF MICH.  
OCT 15 1911

EDITED FOR

The American Physiological Society

CONTENTS

- VARIATIONS IN THE RESPONSE OF HEALTHY MEN TO THE DYSPNEIC  
CONDITIONS PRODUCED BY BREATHING A CONFINED VOLUME OF  
AIR. *By Theodore Hough* . . . . . 369
- THE CONTROL OF PANCREATIC DIABETES IN PREGNANCY BY THE  
PASSAGE OF THE INTERNAL SECRETION OF THE PANCREAS OF  
THE FETUS TO THE BLOOD OF THE MOTHER. *By A. J. Carlson  
and F. M. Drennan* . . . . . 391
- THE PRESENCE OF THE INTERNAL SECRETION OF THE PANCREAS IN  
THE BLOOD. *By Fred M. Drennan* . . . . . 396
- STUDIES IN EXPERIMENTAL GLYCOSURIA. — VII. THE AMOUNT OF  
GLYCOGENASE IN THE LIVER AND IN THE BLOOD ISSUING FROM  
IT, AS AFFECTED BY STIMULATION OF THE GREAT SPLANCHNIC  
NERVE. *By J. J. R. Macleod and R. G. Pearce* . . . . . 403
- METABOLISM OF DEVELOPMENT. — III. QUALITATIVE EFFECTS OF  
PREGNANCY ON THE PROTEIN METABOLISM OF THE DOG. *By  
John R. Murlin* . . . . . 422

VOL. XXVIII.—No. VII.

Issued October 2, 1911

BOSTON, U.S.A.

1911

THE AMERICAN JOURNAL OF PHYSIOLOGY is issued monthly. Each volume will contain about five hundred pages. The price of one volume, sent postage free to subscribers in the United States and Canada, is five dollars; to subscribers in other countries, five dollars and twenty-five cents. The price of Volumes One, Two, and Three will be six dollars to domestic subscribers, and six dollars and twenty-five cents to foreign subscribers. All subscriptions are payable in advance.

Subscriptions, manuscript, and all other communications should be sent to THE AMERICAN JOURNAL OF PHYSIOLOGY, Box 127, Back Bay Post Office, Boston, Mass., U. S. A.

Contributors will receive fifty copies of their papers free; additional copies may be obtained at cost.

---

Copyright, 1911, by THE UNIVERSITY PRESS.

---

Printed at The University Press, Cambridge, Mass.

*Entered at the Boston, Mass., Post Office as second-class mail matter, Feb. 11, 1903.*

